This listing of the claims will replace all prior versions, and listings, of the claims in this

application:

Listing of Claims:

1. (Previously Presented) A device architecture comprising:

a processor arranged to run an operating system (OS) comprising an OS scheduler;

hardware comprising a Dynamic Configurable Hardware Logic (DCHL) layer comprised

of a plurality of Logic Elements (LEs); and

interposed between said OS and said DCHL layer, a TiEred Multi-media Acceleration

Scheduler (TEMAS) that cooperates with the OS scheduler for scheduling the LEs of the DCHL

to execute applications in accordance with inherited application priorities, where the TEMAS

operates in response to configuration requests to configure and reconfigure at least some of the

plurality of LEs using the inherited application priorities such that at one time a particular LE is

scheduled for operation with a first algorithm logic, and at another time the same particular LE is

scheduled for operation with a second, different algorithm logic.

2. (Original) A device architecture as in claim 1, where the TEMAS is comprised of a Tier-1

scheduler that communicates with the OS scheduler and at least one Tier-2 scheduler interposed

between the Tier-1 scheduler and one DCHL configurable device.

3. Cancelled

4. (Original) A device architecture as in claim 1, where said plurality of LEs are disposed within

at least one context plane.

5. (Original) A device architecture as in claim 2, comprising an application layer that comprises

at least one application, a service layer that comprises said Tier-1 scheduler and said OS

scheduler, a node layer that comprises said at least one Tier-2 scheduler that is coupled to a

2

Art Unit: 2195

scheduling algorithm of said Tier-1 scheduler, and a hardware layer that comprises said at least

one DCHL configurable device.

6. (Original) A device architecture as in claim 1, where said device comprises a device having

wireless communications capability.

7. (Previously Presented) A method comprising:

providing an operating system (OS) comprising an OS scheduler and a Dynamic

Configurable Hardware Logic (DCHL) layer comprised of a plurality of Logic Elements (LEs);

interposing between said OS and said DCHL layer a TiEred Multi-media Acceleration

Scheduler (TEMAS); and

operating the TEMAS in cooperation with the OS scheduler for scheduling the LEs of the

DCHL to execute applications in accordance with inherited application priorities, where

operating the TEMAS comprises responding to configuration requests to configure and

reconfigure at least some of the plurality of LEs using the inherited application priorities such

that at one time a particular LE is scheduled for operation with a first algorithm logic, and at

another time the same particular LE is scheduled for operation with a second, different algorithm

logic.

8. (Original) A method as in claim 7, where the TEMAS is comprised of a Tier-1 scheduler for

communicating with the OS scheduler and at least one Tier-2 scheduler interposed between the

Tier-1 scheduler and one DCHL configurable device.

9. Cancelled

10. (Original) A method as in claim 7, where said plurality of LEs are disposed within at least

one context plane.

11. (Original) A method as in claim 8, comprising an application layer that comprises at least one

application, a service layer that comprises said Tier-1 scheduler and said OS scheduler, a node

3

Art Unit: 2195

layer that comprises said at least one Tier-2 scheduler that is coupled to a scheduling algorithm of

said Tier-1 scheduler, and a hardware layer that comprises said at least one DCHL configurable

device.

12. (Previously Presented) A method as in claim 7, executed in a device having wireless

communications capability.

13. (Previously Presented) An apparatus, comprising:

an applications layer comprising a plurality of applications;

a processor arranged to run a service layer comprising an operating system (OS) having an OS

scheduler;

hardware comprising a hardware layer comprising Dynamic Configurable Hardware Logic

(DCHL) comprised of a plurality of Logic Elements (LEs); and

interposed between said OS and said DCHL in said service layer and in a node layer, a TiEred

Multi-media Acceleration Scheduler (TEMAS) that cooperates with the OS scheduler for

scheduling the LEs of the DCHL to execute said applications in accordance with inherited

application priorities, where operating the TEMAS comprises responding to configuration

requests to configure and reconfigure at least some of the plurality of LEs using the inherited

application priorities such that at one time a particular LE is scheduled for operation with a first

algorithm logic, and at another time the same particular LE is scheduled for operation with a

second, different algorithm logic.

14. (Previously Presented) An apparatus as in claim 13, where said TEMAS is comprised of a

Tier-1 scheduler that communicates with the OS scheduler and at least one Tier-2 scheduler

interposed between the Tier-1 scheduler and one DCHL configurable device.

15. Cancelled

16. (Previously Presented) An apparatus as in claim 13, where said plurality of LEs are disposed

within at least one context plane.

Art Unit: 2195

17. (Previously Presented) An apparatus as in claim 13, where said apparatus comprises a cellular

telephone.

18. (Previously Presented) An apparatus as in claim 13, where said apparatus comprises a

wireless communications device, and where said applications comprise multimedia applications.

19. (Currently Amended) An apparatus, comprising:

a plurality of <u>hardware</u> logic elements;

a logic element scheduler coupled to said plurality of hardware logic elements; and

an application scheduler coupled to said logic element scheduler and to an operating system

scheduler, said application scheduler configured to receive information from said operating

system scheduler comprising at least a scheduling order of applications and a priority of the

applications and to generate and send application scheduling events to said logic element

scheduler in accordance with said received information;

where said logic element scheduler responds to receipt of scheduling events to configure and

reconfigure at least some of the plurality of hardware logical elements such that at one time a

particular hardware logic element is scheduled for operation with a first algorithm logic for

executing the first algorithm logic, and at another time the same particular hardware logic

element is scheduled for operation with a second, different algorithm logic for executing the

second, different algorithm logic.

20. (Previously Presented) The apparatus of claim 19, where said application scheduler is further

configured to receive feedback of communication overhead from said logic element scheduler for

use in adjusting scheduling timing.

5

Art Unit: 2195

21. (Previously Presented) The apparatus of claim 19, where said logic element scheduler is further configured use the priority information when scheduling the application logics onto the logic elements.

22. (Previously Presented) The apparatus of claim 19, embodied in a device having wireless communications capability.